

52

DART AEROSPACE LTD	Work Order:	22021
Description: Doubler	Part Number:	D3144-115
Dwg: D3144 Rev. B page 8 04.12.01 RF	Qty:	9 7 Page 1 of 1

Step	Location	Procedure	By	Date	Qty
1	DC	Issue Traveler	RF	04.12.08	10
2	PG	Issue P/O: <u>2007542</u> Email or Ship DXF file to vendor Laser Cut D3144-115 flat pattern per Dwg D3144 Possible Supplier: GFI or Industrial Laser Material release note is required			
3	RG	Receive and Inspect for transit damage Ensure material release note is attached	CL	05/03/01	10
4	QC6	Inspect dimensions as per Dwg D3144	RF	05.03.15	9
5	GA	Deburr	SB	05/04/12	9
6	FP	Chemical Conversion Coat per QSI 005 4.1	ML	05-04-15	9
7	FP	Powder Coat Black Sandtex (Ref: 4.3.5.7) per QSI 005 4.3	M8P	05/04/25	9
8	QC3	Inspect Powder Coat	ML	05.04.25	9
9	ST	Identify and Stock	ML	05-04-25	9
10	AC	Cost / part: <u>21.15</u>	SAC	05.05.26	9
11	DC	Close W/O <u>20.02</u> Inspect Level 21	RF	05.04.29	9

Rev	Date	Change	Revised By	Approved
A	04.11.29	New issue	KJ/RF	<i>[Signature]</i>

RELEASED
[Signature]
04/11/20

W/O:		WORK ORDER CHANGES							
DATE	STEP	PROCEDURE CHANGE			By	Date	Qty	Approval Mfg / Design Mgr	Approval QC Inspector
05.03.10	4	(1) KEPT IN STORES FOR TEMPLATE			RF	05.03.10	1	RF 05.03.10	AB 08.04.29

NCR:		WORK ORDER NON-CONFORMANCE (NCR)							
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Design Mgr	Approval QC Inspector	
			Initial Design Mgr	Action Description Design Mgr	Sign & Date				

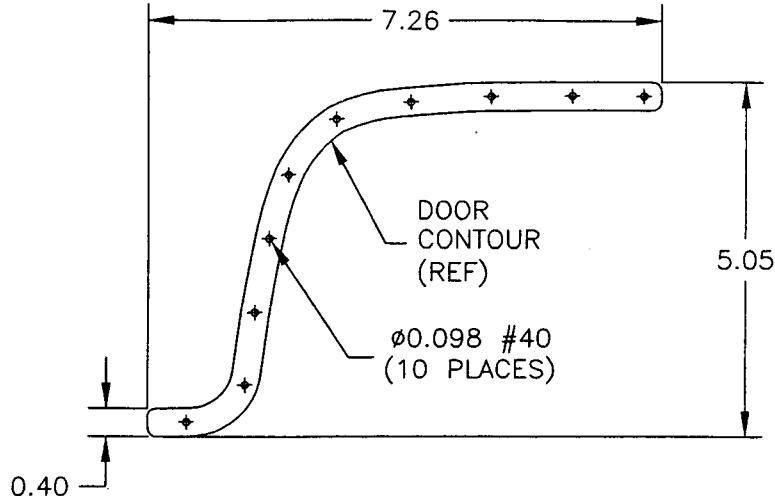
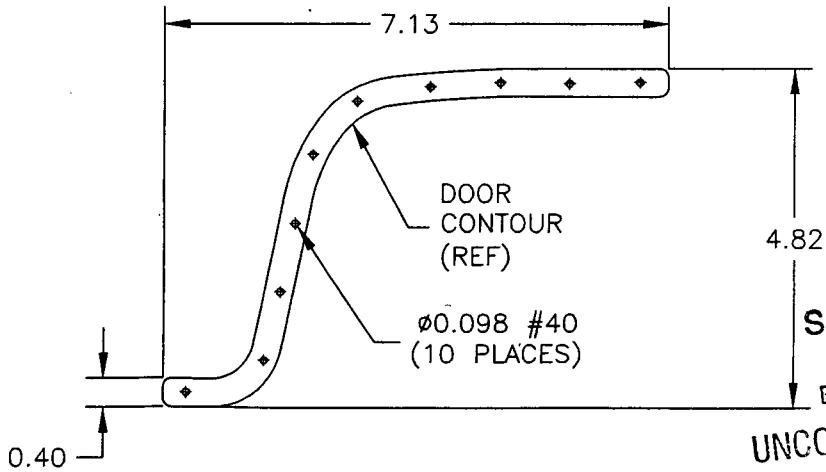
Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

NOTE: Date & initial all entries QA: N/C Closed: _____ Date: _____

DART

COPY ISSUED

DESIGN <i>PT</i>	DRAWN BY <i>TS</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>#</i>	APPROVED <i>#</i>	DRAWING NO. D3144	REV. B SHEET 8 OF 9
DATE 04.09.17		TITLE DOUBLER	SCALE NTS

*44-109
04.11.23*D3144-109 DOUBLER (FOR D412-694-01)D3144-115 DOUBLER (FOR D412-694-02)

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE

WORK ORDER
NO. 22021

D3144-109/-115 NOTES:

- 1) MATERIAL: 2024-T3 SHEET (QQ-A-250/4) 0.032 THICK (REF DART SPEC M2024T3S.032)
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
POWDER COAT BLACK SANTEX (4.3.5.7) PER DART QSI 005 4.3
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES
- 5) BREAK ALL SHARP EDGES 0.005 TO 0.010
- 6) MACHINE PER DRAWING "D3144-B8.DWG"

Job Costing Report

Dart Aerospace Ltd.
HawkesburyDec 06, 2004
11:09 am

Work Order No : 0022021
 Project Name : D3144-115
 Project For : WK452
 Work Order Type : Main
 Main WO Number :
 House Part Number : D3144-115
 Description : Doubler
 Manufactured : Yes
 Amount Req'd : 10
 Amount Done : 0
 Start Date : 12-03-04
 Est Finish Date : 12-21-04
 Act Finish Date :
 Drawings Reqd : No
 Ok for Approval :
 Approval Rec'd :
 Department Code:
 Burden Flags : NNNNNNN
 WO Status : Open
 Invoice State : Not Invoiced
 Invoice Date :
 Invoice Number :
 Invoice Amount : 0.00
 Order Entry No :
 OE Value : 0.00
 Est Margin : 0.000%
 Actual Margin : 0.000%
 \$0 Posted to Finished Goods

	Estimated	Actual	Var. %	Posted	To Post
Material Cost :	0.00	0.00	0.00	0.00	0.00
Engineering Hours :	0.00	0.00	0.00		
Engineering Cost :	0.00	0.00	0.00	0.00	0.00
Production Hours :	0.00	0.00	0.00		
Production Cost :	0.00	0.00	0.00	0.00	0.00
Packaging Hours :	0.00	0.00	0.00		
Packaging Cost :	0.00	0.00	0.00	0.00	0.00
OverHead Hours :	0.00	0.00	0.00		
OverHead Cost :	0.00	0.00	0.00	0.00	0.00
CNC Hours :	0.00	0.00	0.00		
CNC :	0.00	0.00	0.00	0.00	0.00
Misc. Hours :	0.00	0.00	0.00		
Misc. :	0.00	0.00	0.00	0.00	0.00
===== ===== =====					
Burden :	0.00	0.00	0.00		
===== ===== =====					
Total Cost :	0.00	0.00	0.00		
Margin :	0.000	0.000			
Selling Cost :	0.00	0.00			

	Estimated	Actual
Labour Hrs/Amount Done :	0.00	0.00
Profits/ (Loss) :	0.00	0.00



Membre de / A Member of **Thomas & Betts**

180 LABROSSE AVENUE
POINTE CLAIRE, QC
H9R 1A1

CERTIFICATE OF COMPLIANCE

CERTIFICAT DE CONFORMITÉ

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON K6A 1K7

CERTIFICATE NO.	1	OUR JOB NO	J0124329	SHIPPING MEMO	0292752	
ITEM	QUANTITY	PURCHASE ORDER	PART NUMBER	REV	NAME	DWG ISSUE
	10 PCS	2007542	D3144-115		DOUBLER	B
MATERIAL		SUPPLIED BY			MAT. REL. NO.	
AL 2024-T3 (QQ-A-250/4)		SAMUEL / KAISER ALUMINUM			226511 ATT'D	
	PROCESS	PROCESSOR			RELEASE NOTE #	
1						
2						
3						
4						
5						
6						
7						
8						
9						

WE HEREBY CERTIFY ALL THE PARTS COVERED BY THIS CERTIFICATE HAVE BEEN MANUFACTURED FROM MATERIAL SUPPLIED ON RELEASE NOTE SHOWN ABOVE AND THAT ALL PARTS HAVE BEEN INDIVIDUALLY INSPECTED AND CONFORM TO THE DRAWINGS AND PURCHASE ORDER REFERENCED ABOVE.

DATE 24 FEBRUARY 2005

G.F.I. Q.C. REP.

Daleen Harkel



007-05

LES MÉTAUX SPÉCIALISÉS

Programme d'Assurance Qualité Enregistré / Registered Q.A. Program
ISO 9001:2000 AS9100

LETTER OF CONFORMITY –LETTER OF COMPLIANCE

Date: 7 JANVIER 2005

Company Name: G.F.I. Division of Thomas & Betts, Limited
Address: 180 avenue Labrosse
City: Pointe Claire, Qué.
Zip Code: H9R 1A1

du client: 0058243 # de commande SSMQ: 834566
Customer's order #: SSMQ's Order #:

La présente est pour certifier que le matériel détaillé ci-dessous est conforme aux exigences de votre commande et des normes du grade tel que décrit:

The following is to certify that the material listed below meets your order requirements and grade standards as described:

Bien à vous,
Yours truly,

Commis à l'administration.
Administration Clerk.

SHIP TO:
 LES METAUX SPECIALISES SAMUEL
 (SHIP TO)
 21525 CLARK GRAHAM
 BAIE D'URFE, PQ, CA H9X3T5

SOLD TO:
 SAMUEL SON & CO LTD
 2225 FRANCIS HUGHES
 LAVAL, PQ, CA H7S1N5

CUSTOMER PO NUMBER:		CUSTOMER PART NUMBER:		SHIPPING RUN #/LOAD ID:		GOVT CONTRACT NUMBER:	
N16221				100089/2			
KAISER ORDER NO:	LINE ITEM:	SHIP DATE:		ALLOY:	CLAD:	TEMPER:	
10008983	1	9-JUL-2004		2024	BARE	T3	
WEIGHT SHIPPED:	QUANTITY:	B/L NUMBER:		GAUGE:	WIDTH:	LENGTH:	
3928 LB	173 PCS EST.	202031		0.0320 IN	48.00 IN	144.000 IN	

KAISER
ALUMINUM

Trentwood Works - Spokane, WA 99215
 Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
 4011938

Certified Specifications

AMS 4037/RevN

AMS-QQ-A-250/4/RevA

ASTM B 209/Rev04

Test Code: 1504

Test Results

Lot: 226511 Cast

Drop

Ingot

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T3	LT / 2 (Min:Max)	67.4 : 67.6 (465 : 466)	45.2 : 45.3 (312 : 312)	17.8 : 18.3

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual	0.08	0.22	4.46	0.55	1.32	0.01	0.17	0.01	0.01	0.00	TOT 0.06

ALLOY LIMITS

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
2024 MIN	0.00	0.00	3.80	0.30	1.20	0.00	0.00	0.00	0.00	0.00	EACH	0.05
MAX	0.50	0.50	4.90	0.90	1.80	0.10	0.25	0.15	0.05	0.05	TOT	0.15

Aluminum Remainder

CERTIFICATION

KAISER ALUMINUM & CHEMICAL CORPORATION (KAISER) HEREBY CERTIFIES THAT METAL SHIPPED UNDER THIS ORDER WAS MANUFACTURED IN THE U.S.A. AND HAS BEEN INSPECTED, TESTED, AND FOUND IN CONFORMANCE WITH THE REQUIREMENTS OF THE APPLICABLE SPECIFICATIONS AS INDICATED HEREIN. ALL METAL WHICH IS SOLUTION HEAT-TREATED COMPLIES WITH AMS 2772 (MIL-H-6088). ANY WARRANTY IS LIMITED TO THAT SHOWN ON KAISER'S STANDARD GENERAL TERMS AND CONDITIONS OF SALE. TEST REPORTS ARE ON FILE, SUBJECT TO EXAMINATION. ISO-9001:2000 CERTIFIED

BILL POYNOR, LABORATORIES SUPERVISOR

